

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A scanning device for scanning an object that has two ends, comprising:

a lamp having two ends, for emitting a light beam onto said object, said lamp having two ends a first line defined by the two ends of the lamp being substantially parallel to a second line defined by the two ends of the object; and

a transparency, disposed between said lamp and said object, having a first surface and a second surface, said first surface receiving said light beam, said second surface comprising a plurality of refractors for refracting said light beam, a light intensity measured at the two ends of said object being greater than a light intensity measured at the two ends of said lamp said light beam emitted from said lamp passing through said transparency first and then onto said object,

wherein said light beam is substantially collimated before passing through said transparency, the plurality of refractors refracts said light beam to deflect toward the two ends of the object, to facilitate said light beam to dispread substantially equally onto said object.

2. (Currently Amended) A scanning device for scanning an object that has two ends, comprising:

a lamp having two ends, for emitting a light beam onto said object, said lamp being a first line defined by the two ends of the lamp being substantially parallel to a second line defined by the two ends of the object; and

a tube, surrounding with said lamp, of variable thickness and comprising two ends and a central part, the entire thickness of said tube at said two ends being larger than the entire

thickness of said tube at said central part for refracting said light beam, ~~a light intensity measured at the two ends of said object being greater than a light intensity measured at the two ends of said lamp~~

wherein said light beam is substantially collimated before passing through said tube, and after said light beam passes through said tube, said tube refracts said light beam to deflect toward the two ends of the object, to facilitate said light beam to dispread substantially equally onto said object.

3. (Currently Amended) A scanning device for scanning an object that has two ends, comprising:

a lamp having two ends, for emitting a light beam onto said object, a first line defined by the two ends of the lamp being substantially parallel to a second line defined by the two ends of the object; and said lamp having two ends, said lamp being

a tube, surrounding with said lamp, comprising a surface facing said object, said surface comprising a plurality of refractors for refracting said light beam, a light intensity measured at the two ends of said object being greater than a light intensity measured at the two ends of said lamp

wherein said light beam is substantially collimated before passing through said tube, and after said light beam passes through said tube, said plurality of refractors refracts said light beam to deflect toward the two ends of the object, to facilitate said light beam to dispread substantially equally onto said object.

4. (Currently Amended) A scanning device for scanning an object that has two ends, comprising:

a lamp having two ends, for emitting a light beam onto said object, ~~said lamp having two ends~~ a first line defined by the two ends of the lamp being substantially parallel to a second line defined by the two ends of the object; and

a convex plate, disposed over said lamp, for reflecting said light beam onto said object, ~~a light intensity measured at the two ends of said object being greater than a light intensity measured at the two ends of said lamp~~

wherein said light beam is substantially collimated before reflecting by said convex, and after said light beam reaches said convex, said convex reflects said light beam to deflect toward the two ends of the object, to facilitate said light beam to dispread substantially equally onto said object.

5. (Currently Amended) A scanning device for scanning an object that has two ends, comprising:

a lamp having two ends, for emitting a light beam onto said object, ~~said lamp having two ends~~; and

a reflector, disposed over said lamp, having a surface facing said lamp, said surface comprising a plurality of reflection units for reflecting said light beam onto said object, ~~a light intensity measured at the two ends of said object being greater than a light intensity measured at the two ends of said lamp~~

wherein said light beam is substantially collimated before reflecting by said plurality of reflection units, and after said light beam reaches said plurality of reflection units, said plurality of reflection units reflects said light beam to deflect toward the two ends of the object, to facilitate said light beam to dispread substantially equally onto said object.

6. (New) The scanning device of claim 1, wherein said lamp includes a linear light source, and the linear light source emits more light at a central portion of the linear light source than at both of the two ends of the linear light source.

7. (New) The scanning device of claim 2, wherein said lamp includes a linear light source, and the linear light source emits more light at a central portion of the linear light source than at both of the two ends of the linear light source.

8. (New) The scanning device of claim 3, wherein said lamp includes a linear light source, and the linear light source emits more light at a central portion of the linear light source than at both of the two ends of the linear light source.

9. (New) The scanning device of claim 4, wherein said lamp includes a linear light source, and the linear light source emits more light at a central portion of the linear light source than at both of the two ends of the linear light source.

10. (New) The scanning device of claim 5, wherein said lamp includes a linear light source, and the linear light source emits more light at a central portion of the linear light source than at both of the two ends of the linear light source.